

Exhibit 2

10 20 30 40 50
 ACAAA CAGGA AGGAC AGCAG GCTCT GGCAG CCAGA AGCCT GTGGC CCCAA
 TGTTC GTCCT TCCTG TCGTC CGAGA CCGTC GGTCT TCGGA CACCG GGGTT
 60 70 80 90 100
 *
 GCTGG CAGGA TGGCC CCCTT CCTGC AGGTC CCCCCA CAGCC TTCTG GGTTC
 CGACC GTCCT ACCGG GGGAA GGACG TCCAG GGGGT GTCGG AAGAC CCAAG
 110 120 130 140 150
 CTGAC ACGAG AGAAC AGGTG GGGCG GGGTG AAGTG AACTC TGAAG CCAA
 GACTG TGCTC TCTTC TCCAC CCCGC CCCAC TTCAC TTGAG ACTTC GGT
 160 170 180 190 200
 *
 ATGTG ACTCT CCTGG GGTCA CCAGC TTGGG GAGAG GTGAA GAAAG ATGCC
 TACAC TGAGA GGACC CCAGT GGTGG AACCC CTCTC CACTT CTTTC TACGG
 210 220 230 240 250
GGGGC GGAAA CAAAG GGGCA GATAT CACTA TGGTT ATCTT ACTAA GCACA
CCCCG CCTTT GTTTC CCCGT CTATA GTGAT ACCAA TAGAA TGATT CGTGT
 260 270 280 290 300
 *
 GAGTA ACTGA AAAAG CAAGG GTACC GCTGC CCACC TCGTG CCCAC CTTAC
 CTCAT TGACT TTTTC GTTCC CATGG CGACG GGTGG AGCAC GGGTG GAATG
 310 320 330 340 350
 GTTAT ACCTC AAACC AGCTA GATAG TTTCT GATGG CACCC ATACC CTCCC
 CAATA TGGAG TTTGG TCGAT CTATC AAAGA CTACC GTGGG TATGG GAGGG
 360 370 380 390 400
 *
 TTCCC CTTTA GGCAT TGCAG AAGCT CTCCA CCACA ATCTG GAAGT TATAC
 AAGGG GAAAT CCGTA ACGCG TTCGA GAGGT GGTGT TAGAC CTTCA ATATG
 410 420 430 440 450
 CCTGC GAGGG GATGG GCAGG GCACCT TCTGA GGTGC CAATC AGCCT GCAC
 GGACG CTCCC CTACC CGTCC CGTGA AGACT CCACG GTTAG TCGGA CGTGA
 460 470 480 490 500
 *
 CGCCT CTGCC CTGGC CATGG CACTG CTGTC AGTTT CTTGG TACCT GTTC
 GCGGA GACGG GACCG GTACC GTGAC GACAG TCAAA GAACC ATGGA CAGAG
 510 520 530 540 550
 AACAG CAGCC TTGTC ACGTG AGACT ATGGC TGGCG GTGGG GGTGG GGGCA
 TTGTC GTCGG AACAG TGCAC TCTGA TACCG ACGGC CACCC CCACC CCCGT
 560 570 580 590 600
 *
 GGAAT CCTAG AAGCA CAGGA GTGAC ATAGG GTCGG GTCGG GCAGA GGAA
 CCTTA GGATC TTCGT GTCCT CACTG TATCC CAGCC CAGCC CGTCT CGCTT
 610 620 630 640 650
 GTGTA GGAGG TGATC CCAAA AGGGG TGCTG GGGAC GATCT GCCA ACAC
 CACAT CCTCC ACTAG GGGTT TCCCT ACGAC CCCTG CTAGA CCGGT TGTGA
 660 670 680 690 700
 *
 GTCCT CCCAT TCAAA ACTGC CAGTC TGGAG CTCTG GGACA TGGAC AAGCC
 CAGGA GGGTA AGTTT TGAGG GTCAG ACCTC GAGAC CCTGT ACCTG TTCGG

C.DNA

710 720 730 740 750
 AGGCC TGCTA TTCTC CATAc AGGGC TCCAT AGTGT CTGGC TCAGC AGAGT
 TCCGG ACGAT AAGAG GTATG TCCCG AGGTA TCACA GACCG AGTCG TCTCA
 760 770 780 790 800
⁸⁹²³ *
 GGGGG ATCTG GTGGG GATGG AGGAA GCTTA GCTAA AAGCT TTGTA TAGGC
CCCCC TAGAC CACCC CTACC TCCTT CGAAT CGATT TTCGA AACAT ATCCG
 810 820 830 840 850
 TGAAG CTCTG AGTGA CCCTG CTGGG CCACC CTACC CTGGT CTGGG CTGGG
 ACTTC GAGAC TCACT GGGAC GACCC GGTGG GATGG GACCA GACCC GACCC
 860 870 880 890 900
⁷¹⁴ *
TCATT GCATC CCCAG ATTGG AAGGC TTGGT GAGAT GGAGA GGAAC CTTGG
AGTAA CGTAG GGGTC TAACC TTCCG AACCA CTCTA CCTCT CCTTG GAAC
 910 920 930 940 950
CTACA AGCTA TAGCT TTGCC CACCA GAGCC TGCTG GAGGG GAATC AAACA
GATGT TCGAT ATCGA AACGG GTGGT CTCGG ACGAC CTCCC CTTAG TTTGT
⁶⁷¹
 960 970 980 990 1000
³⁹¹⁷⁶ → ^{START*}
AGCCT GGACC TGAGG CTGGC ACTAG CTTTC CTGTT TCTGG AGTGG ATGCC
TCGGA CCTGG ACTCC GACCC TGATC GAAAG GACAA AGACC TCACC TACGG
 1010 1020 1030 1040 1050
AACCC CCTGC CCACC AGCCT GCCTG TCCAC GCCAG GGACA CACAG ACTCC
TTGGG GGACG GGTGG TCGGA CGGAC AGGTG CGGTC CCTGT GTGTC TGAGG
 1060 1070 1080 1090 1100
⁹⁴⁶ *
TTCCC TTTCC AGACT GGAAA GCCCC CTCCT GGGAG AGCAG GAAGG AAGCA
AAGGG AAAGG TCTGA CCTTT CGGGG GAGGA CCCTC TCGTC CTTCC TTCGT
 1110 1120 1130 ²¹³¹ 1140 1150
ACCTG CAACT CTTCC AGCCC TGGAC CTTGG GCTGA ACCTA CAGTT CAAGG
TGGAC GTTGAG GAGG TCGGG ACCTG GAACC CGACT TGGAT GTCAA GTTCC
 1160 1170 1180 1190 1200
²¹³² *
TTTGT ATGCT CACAG GTCTT GGCAG GGAAA GATAA GAATC CCCAG GGCAC
AAACA TACGA GTGTC CAGAA CCGTC CCTTT CTATT CTTAG GGGTC CCGTG
 1210 1220 1230 1240 1250
CCTCC CCCCC GCCCC CCAGT CCACT GCAGG TAGCT CCTGG GTCTG CCCTT
GGAGG GGGGG CGGGG GGTCA GGTGA CGTCC ATCGA GGACC CAGAC GGGAA
 1260 1270 1280 1290 1300
⁹⁴⁵ *
CAGGG CAAGT GCTGA CGCTC CATCA GACTG TGATG GGGCC CTTTT CTGAG
GTCCC GTTCA CGACT GCGAG GTAGT CTGAC ACTAC CCCGG GAAAA GACTC
 1310 1320 1330 ⁸⁶⁶¹⁴ 1340 1350
GATGA CAATT CTGAG AACAA GGCAT TTTTC TAGAG GTGGC AGAAC AGCAT
CTACT GTTAA GACTC TTGTT CCGTA AAAAG ATCTC CACCG TCTTG TCGTA
 1360 1370 1380 1390 1400
^{*}
TTTGT GATGC CCGAG GATCT GGGAG CACAG GTCCA GCTTA ATGAG GGATT
AAACA CTACG GGCTC CTAGA CCCTC GTGTC CAGGT CGAAT TACTC CCTAA
 911

1410 1420 1430 1440 1450
 GGAGG AAGTG GGTAT CATCA TTACA GGGAG GGGCC TCTGT GGCCT CCTGG
 CCTCC TTCAC CCATA GTAGT AATGT CCCTC CCCGG AGACA CCGGA GGACC
 1460 1470 1480 1490 1500 *
 GAAAAA TGCAG TTGCT CTCCT TGGGT GGCCT GGGGT TGTGT GGTGG GCAGA
 CTTTT ACGTC AACGA GAGAA ACCCA CCGGA CCCCA ACACA CCACC CGTCT
 1510 1520 1530 1540 1550
 GGACG GAGGT GCTCA TTGGG GGAAG GGATC ACTTC TGCTC AGAGT GCTCG
 CCTGC CTCCA CGAGT AACCC CCTTC CCTAG TGAAG ACGAG TCTCA CGAGC
 1560 1570 1580 1590 1600 *
 CAAGG GCCTT TCCTT TCCCT GAAGG CAAGC AGGCC TCCTC CCTCT CCTCT
 GTTCC CGGAA AAGGA AAGGA CTTCC GTTCG TCCGG AGGAG GAGGA GGAGA
 1610 1620 1630 1640 1650
TCCTC CTTCT CCTCT TCCTC CTCTT TCTCC ATATG OCTAG CTGGT CATT
 AGGAG GAAGA GGAGA AGGAG GAGAA AGAGG TATAC GGATC GACCA GTAAA
 1660 1670 1680 1690 1700 *
CTAGG GACCA GCATG GTGGG GAAGG GGGCC TTGTC TTGGC CTTCC TCTTG
 GATCC CTGGT CGTAC CAACC CTTCC CCCGG AACAG AACCG GAAGG AGAAC
 1710 1720 1730 1740 1750
TCTCA ATTCC CTCTT TGAGC AGAAG ACAGG GTGGG TGGGG TAGGA TTGGA
 AGAGT TAAGG GAGAA ACTCG TCTTC TGCCC CACCC ACCCC ATCCT AACCT
 1760 1770 1780 1790 1800 *
1760
1770
1780
1790
1800
1810 1820 1830 1840 1850
 GGTCC CTGGC TTCCCT CACCT TGGTA GATGG TGAGG AGCCC CAGAG GTTGA
 CCAGG GACCG AAGGA ACCAT CTACC ACTCC TCGGG GTCTC CAACT
 1860 1870 1880 1890 1900 *
1860
1870
1880
1890
1900
 GCTGA GCAGC AGCTG TGATT TCAGG GTGCC TCTGT TGGAG AGGCT GCTGT
 CGACT CGTCG TCGAC ACTAA AGTC CACGG AGACA ACCTC TCCGA CGACA
 1910 1920 1930 1940 1950
1910
1920
1930
1940
1950
Start
 GATTT GAAAAA TCTTC TTTCC TTGGT GACAA TTCCA GAAGG CTCCA GATGA
 CTAAA CTTTT AGAAG AAAGG AACCA CTGTT AAGGT CTTCC GAGGT CTACT
 1960 1970 1980 1990 2000 *
1960
1970
1980
1990
2000
 ATTGT ATTGG TGAGT GCCTG GCCCT TAAGC AGTCC CAGCT GGGGA TGATG
 TAAAC AATAC ACTCA CGGAC CGGAA ATTG TGAGG GTCGA CCCCT ACTAC
 2010 2020 2030 2040 2050
2010
2020
2030
2040
2050
 GGGAT TTATG GGTGT CCCTG AGCCT AGGGT GACAG GGCCT CTCCT TTTTT
 CCCTA AATAC CCACA GGGAC TCGGA TCCCA CTGTC CCGGA GAGGA AAAAA
 2060 2070 2080 2090 2100 *
2060
2070
2080
2090
2100
2110
 AAAAT AAGAC GAAGT CCCAT GGTGG GGTGG TCCCT CGACG CCCGG ACCCC

alt A16
P. 1/2

1110 2110 2120 2130 2140 2150
 CGCCC TAGCT GGAGG AGCAA CATTG ATGGT AAATTT GGTTC TTCTG GCTGT
 GCCGG ATCGA CCTCC TCGTT GTAAG TACCA TTAAA CCAAA AAGAC CGACA

2160 2170 2180 2190 2200 *

GGGGA TCAGC TCCTG GAAGT GCCCC TGTGC CTCAG TCCAC ACTCA CCATC
 CCCCT AGTCG AGGAC CTTCA CGGGG ACACG GAGTC AGGTG TGAGT GGTAG

2210 8845 2220 2230 2240 2250

CTTAT CTGGC ACTGG CCTTT CACCA ACCGG CCGCC AGAGC TACCT GGTGA
 GAATA GACCG TGACC GGAAA GTGGT TGGCC GGCGG TCTCG ATGGA CCACT

2260 2270 2280 2290 2300 *

CACCT GCACT CGCTA TGGCA TGGCC AGCTG CCGTC TGAGT GCTAA CCGGA
 GTGGA CGTGA GCGAT ACCGT ACCGG TCGAC GGCAG ACTCA CGATT GGCT

2310 2320 2330 420SB 2340 2350

GCCTG CTAGC CAGTG CTGAT GCTGT GGTCT TCCAG CACCG TGAGC TGCAA
 EGGAC GATCG GTCAC GACTA CGACA CCAGA AGGTG GTGGC ACTCG ACGTT

2360 2370 2380 2390 2400 *

ACCCG GCAAT CTCTC CTACC CCTGG ACCAG AGGCC ACACG GACAG CCTTG
 TGGGC CGTTA GAGAG GATGG GGACC TGGTC TCCGG TGTGC CTGTC GGAAC

8851 2410 2420 2430 2440 2450
 GGTCT GGGCC TCCAT GGAAT CGCCC AGTAA TACCC ATGGT CTCCA TCGCT
 CCAGA CCCGG AGGTA CCTTA GCGGG TCATT ATGGG TACCA GAGGT AGCGA

2460 2470 2480 2490 2500 *

TCCGG GGCAT CTTCA ACTGG GTGCT GAGCT ATCGG CGTGA TTCAG ATATC
AGGCC CCGTA GAAGT TGACC CACGA CTCGA TAGCC GCACT AAGTC TATAG

2510 2520 2530 2540 8771 2550
 TTTGT ACCCT ACGGT CGCTT GGAGC CTCTC TCTGG GCCCA CATCC CCACT
 AAACA TGGGA TGCCA GCGAA CCTCG GAGAG AGACC CGGGT GTAGG GGTGA

2560 2570 2580 2590 2600 *

ACCGG CCAAA AGCAC GATGG CTGCC TGGGT GATCA GCAAT TTCCA GGAGC
 TGGCC GGTTC TCGTC CTACC GACGG ACCCA CTAGT CGTTA AAGGT CCTCG

2610 2620 2630 2640 2650

GGCAG CAGCG TGCAA AGCTG TACCG GCAGC TGGCC CCTCA TCTGC AGGTG
 CCGTC GTCGC AGTT TCGAC ATGGC CGTCG ACCGG GGAGT AGACG TCCAC

8052

2660 2670 2680 2690 2700 *

GATGT GTTCG GTCGC GCCAG CGGAC GGCCC CTATG CGCTA ATTGT CTGCT
 CTACA CAAGC CAGCG CGGTC GCCTG CCGGG GATAC GCGAT TAACA GACGA

2710 2720 2730 2740 2750
 GCCCA CTTTG GCCCG GTACC GCTTC TACCT GGCCT TTGAG AACTC ACAEC
 CGGGT GAAAC CGGGC CATGG CGAAG ATGGA CCGGA AACTC TTGAG TGTCG

2760 2770 2780 2790 2800 *

ATCGG GACTA CATCA CTGAG AAGTT CTGGC GCAAT GCCCT GGCAG CTGGT
 TAGCC CTGAT GTAGT GACTC TTCAA GACCG CGTTA CGGGC CCGCC GACCA

8715

2810 2820 2830 2840 2850
 GCTGT ACCCG TGGCG CTGGG ACCTC CTCGG GCCAC CTACG AGGCT TTTGT
 CGACA TGGGC ACCGC GACCC TGGAG GAGCC CGGTG GATGC TCCGA AAACA

2860 2870 2880 2890 2900 *
 GCCAC CAGAT GCCTT TGTAC ACGTG GACGA CTTCA GCTCT GCCCG TGAAAC
 CGGTG GTCTA CGGAA ACATG TGACAC CTGCT GAAGT CGAGA CGGGC ACTTG

~~8848~~ 2910 2920 2930 2940 2950
TGGCT GTCTT CCTCG TCAGC ATGAA TGAGA GTCGT TATCG TGGCT TCTTT
 ACCGA CAGAA GGAGC AGTCG TACTT ACTCT CAGCA ATAGC AGCGA AGAAA

2960 2970 2980 2990 3000 *
8848 8866 Eco77111
 GCTTG GCGAG ACCGG CTCCG TGTGC GGCTC CTGGG TGACT GGAGG GAGCG
 CGAAC CGCTC TGGCC GAGGC ACACG CCGAG GACCC ACTGA CCTCC CTCGC

3010 3020 3030 3040 3050
CTTCT GCACC ATCTG TGCCC GCTAC CCTTA CTTGC CCCGC AGCCA GGTCT
 GAAGA CGTGG TAGAC ACAGG CGATG GGAAT GAAGC GGGCG TCGGT CCAGA

3060 3070 3080 3090 3100 *
8848 Stop
 ATGAA GACCT TGAAA GCTGG TTCCA GGCT ~~GAACT~~ CCTGC TGCTG GGAGA
 TACTT CTGGA ACTTT CGACC AAGGT CCGAA CTTGA GGACG ACGAC CCTCT

3110 3120 3130 3140 3150
 GGCTG GATGG GTGGG AGACT GATGT TGAAA CCAAA GAGCT GGGCA TCCAG
 CCGAC CTACC CACCC TCTGA CTACA ACTTT GGTTT CTGGA CCCGT AGGTC

3160 3170 3180 3190 3200 *
GCTTT TGGTC ACCAT GGCAC TACCC CAAGG CTTTT CCTGT TCAGT GAGCA
CGAAA ACCAG TGGTA CCGTG ATGGG GTTCC GAAAA GGACA AGTCA CTCGT

~~8848~~ 3210 3220 3230 3240 3250
GAAAT TCAGG ATATA AGGAG AAGAC TGGGC TGAGA TACCC TGGTG GGCTT
CCTTA AGTCC TATAT TCCTC TTCTG ACCCG ACTCT ATGGG ACCAC CCGAA
Eco77

3260 3270 3280 3290 3300 *
 TAGAG TAGGG GCCCA GGATA AGAGA CAATG AATTA ATGAG GAGCA TATGG
 ATCTC ATCCC CGGGT CCTAT TCTCT GTTAC TTAAT TACTC CTCGT ATACC

3310 3320 3330 3340 3350
 GGAAG GTGGC TGAGG GTCCC TGACT TACCT TGACG CATGG CTGAA GGCTC
 CCTTC CACCG ACTCC CAGGG ACTGA ATGGA ACTGG GTACC GACTT CCGAG

3360 3370 3380 3390 3400 *
 CATGC CCATG GCTGG AGCTG GGACC CTACA CTTCT ATAGT CAAGG TGCTT
 GTACG GGTAC CGACC TCGAC CCTGG GATGT GAAGA TATCA GTTCC ACGAA

3410 ~~8954~~ 3420 3430 3440 3450
 AGCCT CAAGG TTGCA GATGC ACCCT CTAGT ACTCT GGGTG CAGAC TGTAC
 TCGGA GTTCC AACGT CTACG TGGGA GATCA TGAGA CCCAC GTCTG ACATG

~~8967~~ 3460 3470 3480 3490 3500 *
 ACTGG GCGCA GGGGG TTGTG GAAGG ACAGT GCAGA TGATT CTGGG CTTTT
 TGACC CGCGT CCCCC AACAC CTTCC TGTCA CGTCT ACTAA GACCC GAAAA

3510 3520 3530 3540 3550
GACAC CACAG TTCCC CCAGG GAAAG AGGCA CTACT AATAA AAACA CTGAC
CTGTG GTGTC AAGGG GGTCC CTTTC TCCGT GATGA TTATT TTTGT GACTG

3560 3570 3580 3590
AGAAA TCTCC TGGTC AAGTC TGTTC GGCAG CAGAG CTCGA ATTG
TCTTT AGAGG ACCAG TTCAG ACAAT CCGTC GTCTC GAGCT TAAG

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DNA